SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Inductive Load Bank | SC-ILB 1074

Category: TVET Equipments · **Order Code:** ILB 1074 · **Country of Origin:** India

Product Overview

The Inductive Load Bank – SC-ILB 1074 is a set of three identical iron-core inductor banks for single- and three-phase circuits. Each bank offers four taps (0.5 H, 1 H, 2 H, and 3 H) with rated currents from 2.5 A to 5 A at 50 Hz. The banks can be connected in series, parallel, star, or delta. A rotary tap selector, isolating switch, and active-tap LED are fitted to each bank. Each bank has a thermal fuse and test points, with 4 mm safety sockets for connections. It complies with IEC/EN 61010-1 and CE standards. English manuals and a tap rating table are included. It is ideal for reactive power, power factor, and inductive load experiments.

View this product online: https://scienticoindia.com/product/inductive-load-bank-sc-ilb-1074/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Inductive Load Bank – SC-ILB 1074: Technical Specifications

Category	Specification
Number of Banks	3 identical banks
Connection Options	Series, parallel, star, delta
Tap 1	0.5 H; 5 A; 157 ohm at 50 Hz
Tap 2	1 H; 3.5 A; 314 ohm at 50 Hz
Tap 3	2 H; 3 A; 628 ohm at 50 Hz
Tap 4	3 H; 2.5 A; 942 ohm at 50 Hz
Rated Voltage	230 V AC, 50 Hz continuous per tap
Star Connection Voltage	400 V
Core	Laminated iron
Switching	Rotary tap selector and isolating switch per bank
Tap Indication	LED for active tap
Protection	Thermal fuse per bank
Connections	4 mm safety sockets; test points per bank
Compliance	IEC/EN 61010-1; CE marked

Category	Specification
Insulation Class	F
Enclosure	IP20
Documentation	Rating table supplied

Key Features

Key Features

- **Three Identical Banks:** series, parallel, star, or delta configurations
- **Four Tap Values:** 0.5 H, 1 H, 2 H, 3 H for varied reactance
- **Tap Selection:** rotary selector per bank with isolating switch
- **Active-Tap LED:** clear indication of the selected tap
- **Laminated Iron Core:** stable inductive performance
- **Thermal Fuse:** protection on each bank
- **Test Points:** access on each bank for measurement
- **Safety Sockets:** 4 mm connections for secure wiring
- **Rating Table:** tap ratings supplied for reference
- **Compliance:** IEC/EN 61010-1, CE, class F, IP20

Experiments

- Reactive power measurement at different inductance values
- Power factor measurement and lagging power factor effects
- Series and parallel inductor combination analysis
- Star and delta connection of inductive loads
- Impedance calculation from tap values at 50 Hz
- Current and voltage phase relationship in inductive circuits
- Power factor correction using capacitive banks
- Current limiting effect of inductive loads
- Comparison of tap ratings and current capacity
- Three-phase inductive load balancing

Construction and Design

The Inductive Load Bank – SC-ILB 1074 contains three identical iron-core inductor banks. Each bank has a laminated iron core with four selectable taps. A rotary tap selector and isolating switch are fitted to each bank, with an LED showing the active tap. Test points and 4 mm safety sockets provide connection access. A thermal fuse protects each bank. The banks can be connected in series, parallel, star, or delta configurations.

Scope of Delivery

- Inductive load bank
- English manual with tap rating table

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q: What taps are available on each bank?
A: Each bank has four taps: 0.5 H at 5 A, 1 H at 3.5 A, 2 H at 3 A, and 3 H at 2.5 A, all at 50 Hz. The corresponding impedances are 157, 314, 628, and 942 ohm.

Q: What voltage rating applies?
A: Each tap is rated for 230 V AC, 50 Hz continuous operation. In a star connection, the rating across the star is 400 V.

Q: How do I know which tap is selected?
A: An LED indicates the active tap on each bank, and a rotary tap selector allows you to change it.

Q: Can the banks be combined?
A: Yes. The three identical banks can be connected in series, parallel, star, or delta configurations.

Q: Is each bank protected?
A: Yes. Each bank has a thermal fuse for protection, and a rating table is supplied with the unit.

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